

the airflow rate control apparatus further comprises a connector into which electrical connections of the motor and the throttle sensor, respectively, are aggregated.

²²
~~48.~~

(New) A motor driven throttle valve system comprising:
a throttle body in which a throttle valve is mounted,
a motor for driving said throttle valve via a throttle shaft,
a recess portion formed adjacently to said throttle valve in said throttle body for accommodating said motor so that an axis of the motor is parallel with said throttle shaft,

a position sensor provided on one end of said throttle shaft for detecting a rotational displacement of said throttle shaft, and

a cover member attached to said throttle body at the one end side of said throttle shaft to form a space together with the throttle body for accommodating electric lead lines of said motor and said position sensor, from which the electric lead lines extend out of the system, wherein

said position sensor is disposed in said space, and

said recess portion is connected with said space through a hole by which the electric lead lines of the motor is allowed to extend to the space.

²³
~~49.~~

(New) An airflow rate control apparatus comprising a throttle valve element driven by a motor, a throttle sensor for detecting an opening degree of said throttle valve element, and a cover means attached to a body for

accommodating the throttle sensor in a space formed by the cover means and the body, wherein

the cover means is provided with a connector, and the motor is electrically connected to the external through said connector.

²⁴
~~50.~~ (New) An airflow rate control apparatus comprising a throttle valve element driven by a motor, a throttle sensor for detecting an opening degree of said throttle valve element, and a control unit including a control circuit for the motor, wherein

the control unit is provided within a cover means provided with a connector as an interface to the external, the cover means forming a space together with a throttle body for accommodating the throttle sensor in the space.

²⁵
~~51.~~ (New) An air flow rate control apparatus comprising:
a throttle valve;
a throttle body supporting the throttle valve;
a motor for driving the throttle valve;
a sensor for detecting an opening degree of the throttle valve; and
a control unit attached to said throttle body, on which a microcomputer is mounted for controlling said motor, wherein

said control unit comprises an electrical terminal to which said sensor is connected, an electrical terminal to which said motor is connected, and a connector for the connection to the external, the electrical terminals being

electrically connected to the microcomputer, the microcomputer being connected to the external through the connector.

²⁶
~~52.~~ (New) An air flow rate control apparatus comprising:

a throttle valve;

a throttle body in which said throttle valve is mounted;

a cover member fixed to said throttle body through a sealing member disposed therebetween, the cover member forming a space together with said throttle body;

c' a sensor disposed in said space for detecting an opening degree of said throttle valve; and

a hole connecting said space with the external space of the apparatus.

²⁷
~~53.~~ (New) An air flow rate control apparatus comprising:

a throttle valve;

a throttle body in which a motor is mounted for driving said throttle valve;

a cover member fixed to said throttle body through a sealing member disposed therebetween, the cover member forming a space together with said throttle body;

a sensor disposed in said space for detecting an opening degree of said throttle valve;

a control unit disposed in said space for controlling said motor; and

a hole connecting said space with the external space of the apparatus.